

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>112392:EJH</b>	<b>FOR FURTHER ACTION</b>	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. <b>PCT/AU2004/000940</b>	International filing date ( <i>day/month/year</i> ) <b>12 July 2004</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>11 July 2003</b>
Applicant <b>PREMIUM CASING SERVICES PTY LTD et al</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of **5** sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☒ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II).

3. ☐ Unity of invention is lacking (See Box No. III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**Means and method for monitoring the assembly of threaded components**

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. **1**

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

**Box No. IV Text of the Abstract (Continuation of item 5 of the first sheet)**

A means and method for monitoring the assembly of threaded components comprising a station (13) at which two threaded components are to be threadably interengaged, a heat sensor (11) located at the station and positioned to sense the temperatures of the threaded coupling (15) whilst being threadably engaged or disengaged, an output associated with the sensor which is adapted to display (17) an indication of the temperatures of the coupling (15) during assembly or disassembly of the components.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000940

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. <sup>7</sup>: G01K 13/08, G01N 25/72, 21/88

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI &amp; keywords: screw, thread, threaded; heat, temperature, thermal, infrared, ir; damage, defect, hotspot, flaw, fault; engage, assemble, couple, join, connect; and other similar terms

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 09-253975 A (NAKAZAWA HIROSHI ET AL.) 30 September 1997 See abstract and online machine translation [online], [retrieved on 06-08-2004], retrieved from the internet <URL: <a href="http://www4.ipdl.jpo.go.jp/Tokujitu/PAJdetail.ipdl?N0000=60&amp;N0120=01&amp;N2001=2&amp;N3001=H09-253975">http://www4.ipdl.jpo.go.jp/Tokujitu/PAJdetail.ipdl?N0000=60&amp;N0120=01&amp;N2001=2&amp;N3001=H09-253975</a> >	1 - 4, 10
X	US 6 532 648 B2 (MURAKAMI ET AL.) 18 March 2003 See entire document	10
A	DE 19955186 A1 (DAIMLERCHRYSLER AG) 23 May 2001 See abstract	1 - 11

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

"A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search  
6 August 2004Date of mailing of the international search report  
30 AUG 2004Name and mailing address of the ISA/AU  
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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU2004/000940

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Patent Abstracts of Japan JP 10-318956 A (TAISEI CORP) 4 December 1998 See abstract	1 - 11
A	Patent Abstracts of Japan JP 01-235848 A (KAWASAKI STEEL CORP) 20 September 1989 See abstract	1 - 11
A	Patent Abstracts of Japan JP 10-318955 A (KUNOOLE SHOKUHIN KK ET AL.) 4 December 1998 See abstract	1 - 11

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/000940

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
JP	9253975				
US	6532648	EP	1043475	JP	2000352484
		US	2002121012	US	6385837
DE	19955186				
JP	10318956				
JP	1235848				
JP	10318955				
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					